

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

[Data apply to the entire extent of the map unit within the survey area. Map unit and soil properties for a specific parcel of land may vary somewhat and should be determined by onsite investigation]

### 31E--Storden loam, 18 to 25 percent slopes

#### Storden

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 18 to 25 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 6e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 6 in	loam		moderate	1.18 to 1.30 in	7.4 to 8.4
C1 --	6 to 15 in	loam		moderate	1.54 to 1.72 in	7.4 to 8.4
C2 --	15 to 60 in	loam		moderate	7.63 to 8.53 in	7.4 to 8.4

### 31F--Storden loam, 25 to 40 percent slopes

#### Storden

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 25 to 40 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 6 in	loam		moderate	1.18 to 1.30 in	7.4 to 8.4
C1 --	6 to 15 in	loam		moderate	1.54 to 1.72 in	7.4 to 8.4
C2 --	15 to 60 in	loam		moderate	7.63 to 8.53 in	7.4 to 8.4

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### 35--Blue Earth silt loam

#### Blue Earth

*Extent:* 85 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	7.4 to 8.4
A --	8 to 37 in	mucky silt loam		moderate	6.41 to 6.99 in	7.4 to 8.4
Cg --	37 to 60 in	clay loam		moderate	3.20 to 3.65 in	7.4 to 8.4

### 85--Calco silty clay loam, occasionally flooded

#### Calco, occasionally flooded

*Extent:* 85 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 --	0 to 16 in	silty clay loam		moderate	2.91 to 3.55 in	7.4 to 8.4
A2 --	16 to 32 in	silty clay loam		moderate	2.83 to 3.46 in	7.4 to 8.4
Cg --	32 to 60 in	silty clay loam		moderate	4.47 to 5.31 in	7.4 to 8.4

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### 86--Canisteo clay loam

#### Canisteo

*Extent:* 85 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 19 in	clay loam	moderate	3.21 to 3.59 in	7.4 to 8.4
Bg -- 19 to 33 in	clay loam	moderate	2.13 to 2.69 in	7.4 to 8.4
Bkg,Cg -- 33 to 60 in	loam	moderate	4.55 to 5.09 in	7.4 to 8.4

### 94B--Terril loam, 2 to 6 percent slopes

#### Terril

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* colluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 24 in	loam	moderate	4.80 to 5.28 in	6.1 to 7.3
AB -- 24 to 30 in	loam	moderate	1.18 to 1.30 in	6.1 to 7.3
Bw -- 30 to 60 in	loam	moderate	5.09 to 5.69 in	6.1 to 7.3

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### 94C--Terril loam, 6 to 12 percent slopes

#### Terril

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* colluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 24 in	loam	moderate	4.80 to 5.28 in	6.1 to 7.3
AB -- 24 to 30 in	loam	moderate	1.00 to 1.12 in	6.1 to 7.3
Bw -- 30 to 60 in	loam	moderate	5.09 to 5.69 in	6.1 to 7.3

### 108--McIntosh silt loam, 1 to 3 percent slopes

#### McIntosh

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* lacustrine deposits over till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,ABk -- 0 to 14 in	silt loam	moderate	3.12 to 3.40 in	7.4 to 8.4
Bk -- 14 to 24 in	silt loam	moderate	1.97 to 2.17 in	7.4 to 8.4
2Bk,2C -- 24 to 60 in	loam	moderate	6.09 to 6.81 in	7.4 to 8.4

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### 113--Webster clay loam

#### Webster

*Extent:* 85 percent of the unit

*Landform(s):* swales

*Slope gradient:* 0 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB -- 0 to 19 in	clay loam	moderate	3.21 to 3.59 in	6.6 to 7.3
Bg -- 19 to 26 in	loam	moderate	1.20 to 1.35 in	6.6 to 7.3
Cg -- 26 to 60 in	loam	moderate	5.76 to 6.43 in	7.4 to 8.4

### 127A--Sverdrup fine sandy loam, 0 to 2 percent slopes

#### Sverdrup

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 3s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	fine sandy loam	moderately rapid	1.26 to 1.42 in	6.1 to 7.3
Bw -- 8 to 18 in	sandy loam	moderately rapid	1.23 to 1.43 in	6.1 to 7.3
BC,C -- 18 to 60 in	fine sand	rapid	2.09 to 2.92 in	7.4 to 8.4

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### 127B--Sverdrup fine sandy loam, 2 to 6 percent slopes

#### Sverdrup

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in		fine sandy loam	moderately rapid	1.26 to 1.42 in	6.1 to 7.3
Bw --	8 to 18 in		sandy loam	moderately rapid	1.23 to 1.43 in	6.1 to 7.3
BC,C --	18 to 60 in		fine sand	rapid	2.09 to 2.92 in	7.4 to 8.4

### 127C--Sverdrup sandy loam, 6 to 12 percent slopes

#### Sverdrup

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in		sandy loam	moderately rapid	0.92 to 1.06 in	6.1 to 7.3
Bw --	7 to 17 in		sandy loam	moderately rapid	1.18 to 1.38 in	6.1 to 7.3
BC,C --	17 to 60 in		fine sand	rapid	2.15 to 3.00 in	7.4 to 8.4

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### 134--Okoboji silty clay loam

#### Okoboji

*Extent:* 85 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay loam	moderately slow	1.77 to 2.17 in	6.1 to 7.3
A,AB -- 10 to 34 in	silty clay loam	moderately slow	3.84 to 4.56 in	6.6 to 7.3
Bg,Cg -- 34 to 60 in	silty clay loam	moderately slow	4.16 to 4.94 in	6.6 to 8.4

### 137--Dovray silty clay

#### Dovray

*Extent:* 85 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	silty clay	moderately slow	1.65 to 2.01 in	6.1 to 7.3
A -- 12 to 25 in	silty clay	moderately slow	1.87 to 2.28 in	6.1 to 7.3
Bg -- 25 to 42 in	silty clay	moderately slow	2.20 to 2.71 in	6.6 to 7.3
Cg -- 42 to 60 in	silty clay loam	slow	2.83 to 3.37 in	6.6 to 8.4

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### 140--Spicer silty clay loam

#### Spicer

*Extent:* 85 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB --	0 to 22 in		silty clay loam	moderate	3.97 to 4.85 in	7.4 to 8.4
Bg --	22 to 38 in		silty clay loam	moderate	2.52 to 2.99 in	7.4 to 8.4
Cg --	38 to 60 in		silt loam	moderate	4.41 to 4.85 in	7.4 to 8.4

### 141A--Egeland loam, 0 to 2 percent slopes

#### Egeland

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in		loam	moderate	1.97 to 2.17 in	5.6 to 7.3
Bw,C1 --	10 to 48 in		sandy loam	moderately rapid	4.58 to 5.35 in	6.1 to 7.3
C2 --	48 to 60 in		loamy fine sand	moderately rapid	0.94 to 1.18 in	6.6 to 8.4



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### 141B--Egeland loam, 2 to 6 percent slopes

#### Egeland

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in	loam		moderate	1.97 to 2.17 in	5.6 to 7.3
Bw,C1 --	10 to 48 in	sandy loam		moderately rapid	4.58 to 5.35 in	6.1 to 7.3
C2 --	48 to 60 in	loamy fine sand		moderately rapid	0.94 to 1.18 in	6.6 to 8.4

### 160--Fieldon fine sandy loam

#### Fieldon

*Extent:* 90 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 4

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB --	0 to 17 in	fine sandy loam		moderately rapid	2.71 to 3.05 in	7.4 to 8.4
Bg --	17 to 28 in	fine sandy loam		moderate	1.65 to 1.87 in	7.4 to 8.4
Cg --	28 to 60 in	stratified fine sand to fine sandy loam		rapid	1.59 to 2.23 in	7.4 to 8.4

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### 210--Fulda silty clay

#### Fulda

*Extent:* 85 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB --	0 to 19 in		silty clay	slow	2.65 to 3.21 in	6.6 to 7.3
Bg --	19 to 28 in		silty clay	slow	1.18 to 1.45 in	6.6 to 7.3
Cg --	28 to 60 in		silty clay	slow	3.51 to 4.78 in	7.4 to 8.4

### 246--Marysland clay loam

#### Marysland

*Extent:* 85 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 4

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,Aky,Ak --	0 to 20 in		clay loam	moderate	3.41 to 3.81 in	7.4 to 8.4
Cg --	20 to 28 in		loam	moderate	0.87 to 1.50 in	7.4 to 8.4
2Cg --	28 to 60 in		stratified gravelly coarse sand to fine sand	rapid	0.64 to 1.28 in	7.4 to 8.4

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### 276--Oldham silty clay loam

#### Oldham

*Extent:* 85 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 17 in		silty clay loam	moderately slow	3.05 to 3.72 in	6.6 to 7.3
Bg --	17 to 43 in		silty clay loam	moderately slow	4.16 to 4.94 in	6.6 to 7.3
BCg,Cg --	43 to 60 in		clay loam	moderately slow	2.37 to 2.71 in	7.4 to 8.4

### 290B--Rothsay silt loam, 1 to 4 percent slopes

#### Rothsay

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 4 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		silt loam	moderate	1.99 to 2.17 in	6.6 to 7.3
BA,Bw --	9 to 24 in		silt loam	moderate	2.99 to 3.29 in	6.6 to 7.3
Bk --	24 to 49 in		silt loam	moderately rapid	4.96 to 5.46 in	7.4 to 8.4
C --	49 to 60 in		silt loam	moderately rapid	2.20 to 2.43 in	7.4 to 8.4

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### 290B2--Rothsay silt loam, 3 to 6 percent slopes, eroded

#### Rothsay, eroded

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silt loam		moderate	1.99 to 2.17 in	6.6 to 7.3
BA,Bw --	9 to 24 in	silt loam		moderate	2.99 to 3.29 in	6.6 to 7.3
Bk --	24 to 49 in	silt loam		moderately rapid	4.96 to 5.46 in	7.4 to 8.4
C --	49 to 60 in	silt loam		moderately rapid	2.20 to 2.43 in	7.4 to 8.4

### 319--Barbert silt loam

#### Barbert

*Extent:* 85 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in	silt loam		moderate	2.86 to 3.12 in	5.1 to 6.5
Bt,Btg --	13 to 40 in	silty clay loam		moderate	4.35 to 5.16 in	5.1 to 6.5
BCg,Cg --	40 to 60 in	silty clay		slow	2.17 to 2.95 in	5.1 to 7.3

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 339A--Fordville loam, 0 to 2 percent slopes

#### Fordville

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 4

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in	loam		moderate	2.60 to 2.86 in	6.1 to 7.3
Bw --	13 to 26 in	loam		moderate	2.21 to 2.47 in	6.1 to 7.3
2C --	26 to 60 in	gravelly sand		very rapid	1.69 to 2.37 in	7.4 to 8.4

### 339B--Fordville loam, 2 to 6 percent slopes

#### Fordville

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 4

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in	loam		moderate	2.60 to 2.86 in	6.1 to 7.3
Bw --	13 to 26 in	loam		moderate	2.21 to 2.47 in	6.1 to 7.3
2C --	26 to 60 in	gravelly sand		very rapid	1.69 to 2.37 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 341A--Arvilla sandy loam, 0 to 2 percent slopes

#### Arvilla

*Extent:* 90 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 3s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	sandy loam		moderately rapid	1.02 to 1.18 in	6.1 to 7.3
Bw --	8 to 16 in	sandy loam		moderately rapid	0.99 to 1.16 in	6.6 to 7.3
2C --	16 to 60 in	gravelly coarse sand		very rapid	0.87 to 1.75 in	7.4 to 8.4

### 341B--Arvilla sandy loam, 2 to 6 percent slopes

#### Arvilla

*Extent:* 90 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 4s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	sandy loam		moderately rapid	1.02 to 1.18 in	6.1 to 7.3
Bw --	8 to 16 in	sandy loam		moderately rapid	0.99 to 1.16 in	6.6 to 7.3
2C --	16 to 60 in	gravelly coarse sand		very rapid	0.87 to 1.75 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 341C--Arvilla sandy loam, 6 to 12 percent slopes

#### Arvilla

*Extent:* 90 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	sandy loam		moderately rapid	1.02 to 1.18 in	6.1 to 7.3
Bw --	8 to 16 in	sandy loam		moderately rapid	0.99 to 1.16 in	6.6 to 7.3
2C --	16 to 60 in	gravelly coarse sand		very rapid	0.87 to 1.75 in	7.4 to 8.4

### 347--Malachy loam

#### Malachy

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 4

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB --	0 to 17 in	loam		moderate	3.39 to 3.72 in	7.4 to 8.4
Bw --	17 to 27 in	sandy loam		moderately rapid	1.18 to 1.38 in	7.4 to 8.4
2C --	27 to 60 in	sand		rapid	1.65 to 2.31 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 371--Clontarf sandy loam, 1 to 3 percent slopes

#### Clontarf

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 4

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 3s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 13 in	sandy loam	moderately rapid	1.69 to 1.95 in	6.1 to 7.3
Bw -- 13 to 30 in	sandy loam	moderately rapid	2.03 to 2.37 in	6.1 to 7.3
2C -- 30 to 60 in	loamy sand	rapid	2.39 to 2.99 in	6.6 to 7.8

### 402D--Sioux gravelly sandy loam, 2 to 40 percent slopes

#### Sioux

*Extent:* 90 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 40 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .15

*Land capability, nonirrigated* 6s

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 7 in	gravelly sandy loam	moderately rapid	0.92 to 1.06 in	6.6 to 8.4
AC -- 7 to 10 in	gravelly loamy sand	moderately rapid	0.22 to 0.28 in	7.4 to 8.4
C -- 10 to 60 in	very gravelly sand	very rapid	2.50 to 3.50 in	7.4 to 8.4



## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 421B--Ves loam, 1 to 4 percent slopes

#### Ves

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 4 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 12 in	loam	moderate	2.36 to 2.60 in	6.1 to 7.3
AB,Bw -- 12 to 24 in	clay loam	moderate	1.83 to 2.32 in	6.1 to 7.3
Bk -- 24 to 38 in	loam	moderate	2.34 to 2.62 in	7.4 to 8.4
C -- 38 to 60 in	loam	moderate	3.75 to 4.19 in	7.4 to 8.4

### 423--Seaforth loam, 1 to 3 percent slopes

#### Seaforth

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB -- 0 to 14 in	loam	moderate	2.83 to 3.12 in	7.4 to 8.4
Bk -- 14 to 24 in	loam	moderate	1.67 to 1.87 in	7.4 to 8.4
Bk,C -- 24 to 60 in	loam	moderate	6.09 to 6.81 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 434--Perella silty clay loam

#### Perella

*Extent:* 85 percent of the unit

*Landform(s):* swales

*Slope gradient:* 0 to 1 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 7

*Wind erodibility index (WEI):* 38

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 20 in	silty clay loam	moderate	3.61 to 4.42 in	6.6 to 7.3
BA,Bg -- 20 to 33 in	silty clay loam	moderate	2.08 to 2.47 in	6.6 to 7.3
Bkg,Cg -- 33 to 60 in	silty clay loam	moderate	4.28 to 5.09 in	7.4 to 8.4

### 444--Canisteo silty clay loam

#### Canisteo

*Extent:* 85 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* lacustrine deposit over till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 22 in	silty clay loam	moderate	3.97 to 4.85 in	7.4 to 8.4
Bg -- 22 to 32 in	silty clay loam	moderate	1.57 to 1.87 in	7.4 to 8.4
Bkg,Cg -- 32 to 60 in	loam	moderate	4.75 to 5.31 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 574--Du Page loam, occasionally flooded

#### Du Page, occasionally flooded

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB -- 0 to 36 in	loam	moderate	7.17 to 7.88 in	6.6 to 8.4
C1 -- 36 to 60 in	loam	moderate	4.08 to 4.56 in	7.4 to 8.4
C2 -- 60 to 64 in	stratified loam to sandy clay loam	moderately rapid	0.67 to 0.75 in	7.9 to 8.4

### 575--Nishna silty clay, occasionally flooded

#### Nishna, occasionally flooded

*Extent:* 85 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 1 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* D

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,Bg -- 0 to 48 in	silty clay	slow	6.72 to 8.17 in	7.4 to 8.4
Cg -- 48 to 60 in	silty clay loam	slow	1.89 to 2.24 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 591B--Doland silt loam, 1 to 4 percent slopes

#### Doland

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 4 percent

*Parent material:* lacustrine deposits over till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB --	0 to 11 in	silt loam		moderate	2.43 to 2.65 in	6.1 to 7.3
Bw --	11 to 23 in	silt loam		moderate	2.36 to 2.60 in	6.1 to 7.3
2Bk --	23 to 60 in	loam		moderate	6.29 to 7.03 in	6.6 to 8.4

### 591B2--Doland silt loam, 3 to 6 percent slopes, eroded

#### Doland, eroded

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* lacustrine deposits over till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB --	0 to 11 in	silt loam		moderate	2.43 to 2.65 in	6.1 to 7.3
Bw --	11 to 23 in	silt loam		moderate	2.36 to 2.60 in	6.1 to 7.3
2Bk --	23 to 60 in	loam		moderate	6.29 to 7.03 in	6.6 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 597--Tara silt loam, 1 to 3 percent slopes

#### Tara

*Extent:* 85 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* lacustrine deposits over till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB -- 0 to 16 in	silt loam	moderate	3.55 to 3.87 in	6.1 to 7.3
Bw -- 16 to 36 in	silt loam	moderate	3.94 to 4.33 in	6.6 to 7.3
2C,2Cg -- 36 to 60 in	loam	moderate	4.08 to 4.56 in	7.4 to 8.4

### 610--Calco silty clay loam, frequently flooded

#### Calco, frequently flooded

*Extent:* 85 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* frequent

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 6w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 16 in	silty clay loam	moderate	2.91 to 3.55 in	7.4 to 8.4
A2 -- 16 to 32 in	silty clay loam	moderate	2.83 to 3.46 in	7.4 to 8.4
Cg -- 32 to 60 in	silty clay loam	moderate	4.47 to 5.31 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 878--Calco-Du Page complex

#### Calco, frequently flooded

*Extent:* 55 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* frequent

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 6w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 16 in	silty clay loam	moderate	2.91 to 3.55 in	7.4 to 8.4
A2 -- 16 to 32 in	silty clay loam	moderate	2.83 to 3.46 in	7.4 to 8.4
Cg -- 32 to 60 in	silty clay loam	moderate	4.47 to 5.31 in	7.4 to 8.4

#### Du Page, occasionally flooded

*Extent:* 30 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB -- 0 to 36 in	loam	moderate	7.17 to 7.88 in	6.6 to 8.4
C1 -- 36 to 60 in	loam	moderate	4.08 to 4.56 in	7.4 to 8.4
C2 -- 60 to 64 in	sr to loam to gravelly sandy clay loam	moderately rapid	0.67 to 0.75 in	7.9 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 883--Zumbro-Du Page complex

#### Zumbro, occasionally flooded

*Extent:* 65 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 3s

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	sandy loam	moderately rapid	1.28 to 1.48 in	5.6 to 7.8
AB,Bw -- 10 to 50 in	loamy sand	rapid	3.61 to 4.42 in	5.6 to 7.8
C -- 50 to 60 in	sand	rapid	0.49 to 0.69 in	6.1 to 7.8

#### Du Page, occasionally flooded

*Extent:* 25 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB -- 0 to 36 in	loam	moderate	7.17 to 7.88 in	6.6 to 8.4
C -- 36 to 60 in	loam	moderate	4.08 to 4.56 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 923D--Copaston-Rock outcrop complex, 2 to 25 percent slopes

#### Copaston

*Extent:* 60 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 25 percent

*Parent material:* alluvium over bedrock

*Restrictive feature(s):* lithic bedrock at 12 to 20 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 2

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 6e

*Hydric soil:* no

*Hydrologic group:* D

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,Bw -- 0 to 15 in	loam	moderate	2.99 to 3.29 in	5.6 to 7.3
BC -- 15 to 18 in	sandy loam	moderately rapid	0.38 to 0.44 in	5.6 to 7.3
R -- 18 to 22 in	unweathered bedrock	rapid		7.4 to 8.4

#### Rock outcrop

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:*

*Parent material:*

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:*

*Soil loss tolerance (T factor):*

*Wind erodibility group (WEG):*

*Wind erodibility index (WEI):*

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:* unranked

*Hydrologic group:*

*Potential for frost action:*

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 953C--Arvilla-Storden-Ves complex, 6 to 15 percent slopes

#### Arvilla

*Extent:* 45 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 15 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in		sandy loam	moderately rapid	1.02 to 1.18 in	6.1 to 7.3
Bw --	8 to 16 in		sandy loam	moderately rapid	0.99 to 1.16 in	6.6 to 7.3
2C --	16 to 60 in		gravelly coarse sand	very rapid	0.87 to 1.75 in	7.4 to 8.4

#### Storden

*Extent:* 25 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 15 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in		loam	moderate	1.57 to 1.73 in	7.4 to 8.4
C1 --	8 to 15 in		loam	moderate	1.20 to 1.35 in	7.4 to 8.4
C2 --	15 to 60 in		loam	moderate	7.63 to 8.53 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 953C--Arvilla-Storden-Ves complex, 6 to 15 percent slopes

#### Ves

*Extent:* 20 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 15 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.73 in	6.1 to 7.3
AB,Bw --	8 to 20 in	clay loam		moderate	1.83 to 2.32 in	6.6 to 7.3
Bk --	20 to 38 in	loam		moderate	3.01 to 3.37 in	7.4 to 8.4
C --	38 to 60 in	loam		moderate	3.75 to 4.19 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 954B2--Ves-Storden loams, 3 to 6 percent slopes, eroded

#### Ves, eroded

*Extent:* 60 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 3 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	6.1 to 7.3
AB,Bw -- 9 to 21 in	clay loam	moderate	1.77 to 2.24 in	6.6 to 7.3
Bk -- 21 to 38 in	loam	moderate	2.88 to 3.22 in	7.4 to 8.4
C -- 38 to 60 in	loam	moderate	3.75 to 4.19 in	7.4 to 8.4

#### Storden, eroded

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 4 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	7.4 to 8.4
C1 -- 9 to 15 in	loam	moderate	1.00 to 1.12 in	7.4 to 8.4
C2 -- 15 to 60 in	loam	moderate	7.63 to 8.53 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 954C2--Storden-Ves loams, 5 to 12 percent slopes, eroded

#### Storden, eroded

*Extent:* 60 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 5 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.73 in	7.4 to 8.4
C1 --	8 to 15 in	loam		moderate	1.20 to 1.35 in	7.4 to 8.4
C2 --	15 to 60 in	loam		moderate	7.63 to 8.53 in	7.4 to 8.4

#### Ves, eroded

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 5 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.73 in	6.1 to 7.3
AB,Bw --	8 to 21 in	clay loam		moderate	1.95 to 2.47 in	6.6 to 7.3
Bk --	21 to 38 in	loam		moderate	2.88 to 3.22 in	7.4 to 8.4
C --	38 to 60 in	loam		moderate	3.75 to 4.19 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 954D--Storden-Ves loams, 12 to 18 percent slopes

#### Storden

*Extent:* 60 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 12 to 18 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.73 in	7.4 to 8.4
C1 --	8 to 15 in	loam		moderate	1.20 to 1.35 in	7.4 to 8.4
C2 --	15 to 60 in	loam		moderate	7.63 to 8.53 in	7.4 to 8.4

#### Ves

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 12 to 18 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.73 in	6.1 to 7.3
AB,Bw --	8 to 21 in	clay loam		moderate	1.95 to 2.47 in	6.6 to 7.3
Bk --	21 to 38 in	loam		moderate	2.88 to 3.22 in	7.4 to 8.4
C --	38 to 60 in	loam		moderate	3.75 to 4.19 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 969B2--Zell-Rothsay silt loams, 2 to 6 percent slopes, eroded

#### Zell, eroded

*Extent:* 65 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silt loam		moderate	1.99 to 2.17 in	6.6 to 8.4
Bk --	9 to 29 in	very fine sandy loam		moderate	3.41 to 3.81 in	7.4 to 8.4
C --	29 to 60 in	silt loam		moderate	6.14 to 6.76 in	7.4 to 9.0

#### Rothsay, eroded

*Extent:* 25 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silt loam		moderate	1.99 to 2.17 in	6.6 to 7.3
BA,Bw --	9 to 24 in	silt loam		moderate	2.99 to 3.29 in	6.6 to 7.3
Bk --	24 to 49 in	silt loam		moderately rapid	4.96 to 5.46 in	7.4 to 8.4
C --	49 to 60 in	silt loam		moderately rapid	2.20 to 2.43 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 969C2--Zell-Rothsay silt loams, 6 to 12 percent slopes, eroded

#### Zell, eroded

*Extent:* 60 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silt loam		moderate	1.99 to 2.17 in	6.6 to 8.4
Bk --	9 to 29 in	very fine sandy loam		moderate	3.41 to 3.81 in	7.4 to 8.4
C --	29 to 60 in	silt loam		moderate	6.14 to 6.76 in	7.4 to 9.0

#### Rothsay, eroded

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silt loam		moderate	1.99 to 2.17 in	6.6 to 7.3
BA,Bw --	9 to 24 in	silt loam		moderate	2.99 to 3.29 in	6.6 to 7.3
Bk --	24 to 49 in	silt loam		moderately rapid	4.96 to 5.46 in	7.4 to 8.4
C --	49 to 60 in	silt loam		moderately rapid	2.20 to 2.43 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 1003B--Udorthents (cut and fill land), 0 to 6 percent slopes

#### Udorthents, (cut and fill land)

*Extent:* 100 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 6 percent

*Parent material:* variable loamy material

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:*

*Hydrologic group:* B

*Potential for frost action:*

*Representative soil profile:*

*Texture*

*Permeability*

*Available water  
capacity*

*pH*

### 1016--Udorthents, loamy

#### Udorthents, loamy

*Extent:* 100 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 6 percent

*Parent material:* variable loamy material

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:* unranked

*Hydrologic group:* B

*Potential for frost action:*

*Representative soil profile:*

*Texture*

*Permeability*

*Available water  
capacity*

*pH*



## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 1029--Pits, gravel

#### Pits, gravel

*Extent:* 100 percent of the unit

*Landform(s):* outwash plains, stream terraces

*Slope gradient:*

*Parent material:* variable sand and gravel

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:*

*Soil loss tolerance (T factor):*

*Wind erodibility group (WEG):*

*Wind erodibility index (WEI):*

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:* unranked

*Hydrologic group:*

*Potential for frost action:*

*Representative soil profile:*

*Texture*

*Permeability*

*Available water  
capacity*

*pH*

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 1053--Aquolls and Aquent, ponded

#### Aquolls, ponded

*Extent:* 45 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 8

*Wind erodibility index (WEI):* 0

*Kw factor (surface layer)*

*Land capability, nonirrigated* 8w

*Hydric soil:* yes

*Hydrologic group:* D

*Potential for frost action:*

*Representative soil profile:*

*Texture*

*Permeability*

*Available water  
capacity*

*pH*

#### Aquent, ponded

*Extent:* 45 percent of the unit

*Landform(s):* depressions

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 8

*Wind erodibility index (WEI):* 0

*Kw factor (surface layer)*

*Land capability, nonirrigated* 8w

*Hydric soil:* yes

*Hydrologic group:* D

*Potential for frost action:*

*Representative soil profile:*

*Texture*

*Permeability*

*Available water  
capacity*

*pH*

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 1852F--Terril-Swanlake loams, 18 to 70 percent slopes

#### Terril

*Extent:* 50 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 18 to 40 percent

*Parent material:* colluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1 -- 0 to 24 in	loam	moderate	4.80 to 5.28 in	6.1 to 7.3
A2 -- 24 to 30 in	loam	moderate	1.18 to 1.30 in	6.1 to 7.3
Bw -- 30 to 60 in	loam	moderate	5.09 to 5.69 in	6.1 to 7.3

#### Swanlake

*Extent:* 35 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 18 to 70 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	7.4 to 8.4
ABk,Bk -- 9 to 33 in	loam	moderate	4.08 to 4.56 in	7.4 to 8.4
C -- 33 to 60 in	loam	moderate	4.55 to 5.09 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 1867--Zumbro-Calco complex

#### Zumbro, frequently flooded

*Extent:* 65 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* frequent

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 6w

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	sandy loam	moderately rapid	1.28 to 1.48 in	5.6 to 7.8
AB,Bw -- 10 to 50 in	loamy sand	rapid	3.61 to 4.42 in	5.6 to 7.8
C -- 50 to 60 in	sand	rapid	0.49 to 0.69 in	6.1 to 7.8

#### Calco, frequently flooded

*Extent:* 25 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* frequent

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 4w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 16 in	silty clay loam	moderate	2.91 to 3.55 in	7.4 to 8.4
A2 -- 16 to 32 in	silty clay loam	moderate	2.83 to 3.46 in	7.4 to 8.4
Cg -- 32 to 60 in	silty clay loam	moderate	4.47 to 5.31 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 1868--Canisteo stony clay loam

#### Canisteo

*Extent:* 85 percent of the unit

*Landform(s):* flats

*Slope gradient:* 0 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 8

*Wind erodibility index (WEI):* 0

*Kw factor (surface layer)* .17

*Land capability, nonirrigated* 6s

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB --	0 to 20 in	stony clay loam		moderate	3.41 to 3.81 in	7.4 to 8.4
Bg --	20 to 31 in	clay loam		moderate	1.65 to 2.09 in	7.4 to 8.4
Cg --	31 to 60 in	loam		moderate	4.89 to 5.46 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 1869--Du Page-McIntosh variant loams

#### Du Page, variant, occasionally flooded

*Extent:* 60 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB -- 0 to 36 in	loam	moderate	7.17 to 7.88 in	6.6 to 8.4
C1 -- 36 to 60 in	loam	moderate	4.08 to 4.56 in	7.4 to 8.4
C2 -- 60 to 64 in	stratified loam to sandy clay loam	moderately rapid	0.67 to 0.79 in	7.9 to 8.4

#### McIntosh, variant

*Extent:* 30 percent of the unit

*Landform(s):* moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,ABk -- 0 to 13 in	loam	moderate	2.60 to 2.86 in	7.4 to 8.4
Bk,Cg -- 13 to 43 in	loam	moderate	5.09 to 5.69 in	7.4 to 8.4
Ab,Cg -- 43 to 60 in	stratified loam to silty clay loam	moderate	2.88 to 3.22 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### 1870--Burr-Calco silty clay loams

#### Burr, occasionally flooded

*Extent:* 70 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Apy -- 0 to 7 in	silty clay loam	moderate	1.28 to 1.56 in	7.4 to 8.4
ABky -- 7 to 30 in	silty clay	moderately slow	3.20 to 3.88 in	7.4 to 8.4
ACg,Cg -- 30 to 60 in	stratified silt loam to clay	moderately slow	2.69 to 3.89 in	7.4 to 8.4

#### Calco, occasionally flooded

*Extent:* 20 percent of the unit

*Landform(s):* flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 16 in	silty clay loam	moderate	2.91 to 3.55 in	7.4 to 8.4
A2 -- 16 to 32 in	silty clay loam	moderate	2.83 to 3.46 in	7.4 to 8.4
Cg -- 32 to 60 in	silty clay loam	moderate	4.47 to 5.31 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### GP--Pits, gravel-Udipsamments complex

#### Pits, gravel

*Extent:* 50 to 100 percent of the unit

*Landform(s):* moraines, outwash plains, stream terraces

*Slope gradient:* 0 to 50 percent

*Parent material:* sandy and gravelly outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:*

*Ponding:*

*Drainage class:*

*Soil loss tolerance (T factor):*

*Wind erodibility group (WEG):*

*Wind erodibility index (WEI):*

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:*

*Hydrologic group:*

*Potential for frost action:*

*Representative soil profile:*

*Texture*

*Permeability*

*Available water  
capacity*

*pH*

#### Udipsamments

*Extent:* 15 to 30 percent of the unit

*Landform(s):* moraines, outwash plains, stream terraces

*Slope gradient:* 0 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:*

*Ponding:*

*Drainage class:* excessively drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 2

*Wind erodibility index (WEI):* 134

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:*

*Hydrologic group:* A

*Potential for frost action:*

*Representative soil profile:*

*Texture*

*Permeability*

*Available water  
capacity*

*pH*



## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J1A--Parnell silty clay loam, depressional, 0 to 1 percent slopes

#### Parnell, depressional

*Extent:* 85 to 95 percent of the unit

*Landform(s):* depressions on lake plains, depressions on moraines, depressions on till plains

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 7

*Wind erodibility index (WEI):* 38

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

#### *Representative soil profile:*

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 --	0 to 22 in	silty clay loam		moderately slow	3.97 to 4.85 in	6.1 to 7.3
Btg --	22 to 55 in	silty clay		slow	4.30 to 5.29 in	6.1 to 7.3
BCg --	55 to 80 in	silty clay loam		slow	3.97 to 4.71 in	6.6 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J2A--La Prairie loam, 0 to 2 percent slopes, occasionally flooded

#### La Prairie, occasionally flooded

*Extent:* 80 to 95 percent of the unit

*Landform(s):* flats on flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	6.6 to 8.4
A -- 9 to 38 in	loam	moderate	5.83 to 6.41 in	6.6 to 8.4
Bw -- 38 to 50 in	loam	moderate	2.01 to 2.24 in	6.6 to 8.4
C -- 50 to 60 in	loam	moderate	1.67 to 1.87 in	7.4 to 8.4

### J7A--Sverdrup sandy loam, 0 to 2 percent slopes

#### Sverdrup

*Extent:* 70 to 90 percent of the unit

*Landform(s):* flats on outwash plains

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 4

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 3s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 12 in	sandy loam	moderately rapid	1.54 to 1.77 in	6.1 to 7.3
Bw -- 12 to 26 in	sandy loam	moderately rapid	1.70 to 1.98 in	6.1 to 7.3
2C -- 26 to 80 in	sand	rapid	2.70 to 3.78 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J7B--Sverdrup sandy loam, 2 to 6 percent slopes

#### Sverdrup

*Extent:* 80 to 90 percent of the unit

*Landform(s):* hills on outwash plains

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 4

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 12 in	sandy loam	moderately rapid	1.54 to 1.77 in	6.1 to 7.3
Bw -- 12 to 26 in	sandy loam	moderately rapid	1.70 to 1.98 in	6.1 to 7.3
2C -- 26 to 80 in	sand	rapid	2.70 to 3.78 in	7.4 to 8.4

### J11A--Vallers clay loam, 0 to 2 percent slopes

#### Vallers

*Extent:* 75 to 95 percent of the unit

*Landform(s):* rims on depressions on till plains, flats on till plains, drainageways on till plains

*Slope gradient:* 0 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 14 in	clay loam	moderate	2.41 to 2.69 in	7.4 to 8.4
Bkg -- 14 to 38 in	loam	moderate	3.60 to 4.56 in	7.4 to 8.4
Cg -- 38 to 80 in	loam	moderately slow	6.26 to 7.93 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J12A--Marysland loam, 0 to 2 percent slopes

#### Marysland

*Extent:* 75 to 95 percent of the unit

*Landform(s):* rims on depressions on outwash plains, flats on outwash plains, drainageways on outwash plains

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 4

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

#### *Representative soil profile:*

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	loam	moderate	1.54 to 1.99 in	7.4 to 8.4
Ak --	9 to 12 in	loam	moderate	0.47 to 0.61 in	7.4 to 8.4
Bkg --	12 to 27 in	loam	moderate	2.30 to 2.92 in	7.4 to 8.4
2Cg --	27 to 80 in	gravelly sand	rapid	1.06 to 3.69 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J23A--Lamoure silty clay loam, 0 to 2 percent slopes, occasionally flooded

#### Lamoure, occasionally flooded

*Extent:* 75 to 95 percent of the unit

*Landform(s):* flats on flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* occasional

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 --	0 to 27 in		silty clay loam	moderate	4.89 to 5.98 in	7.4 to 8.4
Cg1 --	27 to 34 in		silty clay loam	moderate	1.07 to 1.27 in	7.4 to 8.4
Cg2 --	34 to 60 in		silt loam	moderate	5.20 to 5.72 in	7.4 to 8.4

### J26B--Darnen loam, 2 to 6 percent slopes

#### Darnen

*Extent:* 85 to 95 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* colluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 24 in		loam	moderate	4.80 to 5.28 in	6.6 to 7.3
AB,Bw1 --	24 to 34 in		loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw2 --	34 to 80 in		loam	moderate	7.83 to 8.75 in	6.6 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J31B--Arvilla-Sandberg complex, 2 to 6 percent slopes

#### Arvilla

*Extent:* 35 to 55 percent of the unit

*Landform(s):* hills on outwash plains

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	sandy loam		moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw --	9 to 14 in	sandy loam		moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk --	14 to 48 in	gravelly sand		very rapid	0.68 to 1.69 in	7.4 to 8.4
2C --	48 to 80 in	gravelly sand		very rapid	0.64 to 1.59 in	7.4 to 8.4

#### Sandberg

*Extent:* 30 to 50 percent of the unit

*Landform(s):* hills on outwash plains

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .15

*Land capability, nonirrigated* 4s

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	gravelly sandy loam		very rapid	0.39 to 1.02 in	6.1 to 7.8
Bk --	8 to 32 in	very gravelly sand		very rapid	0.48 to 1.44 in	7.4 to 8.4
C --	32 to 80 in	gravelly sand		very rapid	0.96 to 2.88 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J32A--Bigstone silty clay loam, depressional, 0 to 1 percent slopes

#### Bigstone, depressional

*Extent:* 70 to 90 percent of the unit

*Landform(s):* depressions on lake plains, depressions on moraines, depressions on till plains

*Slope gradient:* 0 to 1 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in		silty clay loam	moderate	1.77 to 2.17 in	7.4 to 8.4
A --	10 to 30 in		silty clay loam	moderate	3.61 to 4.42 in	7.4 to 8.4
Cg --	30 to 80 in		loam	moderate	7.50 to 9.50 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J38B--Zell-Eckman complex, 2 to 6 percent slopes

#### Zell

*Extent:* 30 to 55 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in		silt loam	moderate	1.87 to 2.17 in	6.6 to 8.4
Bk --	10 to 43 in		silt loam	moderate	4.96 to 6.61 in	7.4 to 8.4
C --	43 to 80 in		silt loam	moderate	5.55 to 7.40 in	7.4 to 8.4

#### Eckman

*Extent:* 30 to 50 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 15 in		silt loam	moderate	3.29 to 3.59 in	6.6 to 7.3
Bw --	15 to 32 in		silt loam	moderate	2.88 to 3.72 in	6.6 to 7.8
Bk --	32 to 42 in		silt loam	moderate	2.05 to 2.25 in	7.4 to 8.4
C --	42 to 80 in		silt loam	moderate	7.56 to 8.31 in	7.4 to 8.4



## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J38C2--Zell-Eckman complex, 6 to 12 percent slopes, moderately eroded

#### Zell, moderately eroded

*Extent:* 35 to 55 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silt loam		moderate	1.72 to 1.99 in	6.6 to 8.4
Bk --	9 to 28 in	silt loam		moderate	2.83 to 3.78 in	7.4 to 8.4
C --	28 to 80 in	silt loam		moderate	7.80 to 10.39 in	7.4 to 9.0

#### Eckman, moderately eroded

*Extent:* 10 to 30 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 5

*Wind erodibility index (WEI):* 56

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	6.6 to 7.3
Bw --	8 to 31 in	silt loam		moderate	3.95 to 5.11 in	6.6 to 7.8
Bk --	31 to 50 in	silt loam		moderate	3.78 to 4.16 in	7.4 to 8.4
C --	50 to 80 in	silt loam		moderate	5.98 to 6.58 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J42C--Sandberg-Arvilla complex, 6 to 12 percent slopes

#### Sandberg

*Extent:* 50 to 70 percent of the unit

*Landform(s):* hills on outwash plains

*Slope gradient:* 6 to 12 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 8

*Wind erodibility index (WEI):* 0

*Kw factor (surface layer)* .15

*Land capability, nonirrigated* 6s

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	gravelly sandy loam	very rapid	0.49 to 1.28 in	6.1 to 7.8
Bk -- 10 to 22 in	gravelly sand	very rapid	0.24 to 0.73 in	7.4 to 8.4
C -- 22 to 80 in	gravelly sand	very rapid	1.16 to 3.47 in	7.4 to 8.4

#### Arvilla

*Extent:* 25 to 35 percent of the unit

*Landform(s):* hills on outwash plains

*Slope gradient:* 6 to 12 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw -- 9 to 14 in	sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk -- 14 to 48 in	gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C -- 48 to 80 in	gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J45F--Sandberg sandy loam, 12 to 40 percent slopes

#### Sandberg

*Extent:* 70 to 90 percent of the unit

*Landform(s):* hills on outwash plains

*Slope gradient:* 12 to 40 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .15

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 --	0 to 12 in	sandy loam	very rapid	1.54 to 1.77 in	6.1 to 7.8
Bk --	12 to 28 in	gravelly sand	very rapid	0.32 to 0.97 in	7.4 to 8.4
C --	28 to 80 in	gravelly sand	very rapid	1.04 to 3.12 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J48A--Bigstone and Parnell soils, ponded, 0 to 1 percent slopes

#### Bigstone, ponded

*Extent:* 0 to 85 percent of the unit

*Landform(s):* depressions on moraines, depressions on lake plains, depressions on till plains

*Slope gradient:* 0 to 1 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 8

*Wind erodibility index (WEI):* 0

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 8w

*Hydric soil:* yes

*Hydrologic group:* D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1 -- 0 to 18 in	silty clay loam	moderate	3.26 to 3.98 in	7.4 to 8.4
A2 -- 18 to 48 in	silty clay loam	moderate	5.39 to 6.58 in	7.4 to 8.4
2Cg -- 48 to 80 in	loam	moderate	4.78 to 6.06 in	7.4 to 8.4

#### Parnell, ponded

*Extent:* 0 to 85 percent of the unit

*Landform(s):* depressions on moraines, depressions on lake plains, depressions on till plains

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 8

*Wind erodibility index (WEI):* 0

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 8w

*Hydric soil:* yes

*Hydrologic group:* D

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 -- 0 to 22 in	silty clay loam	moderately slow	3.97 to 4.85 in	6.1 to 7.3
Btg -- 22 to 55 in	silty clay	slow	4.30 to 5.29 in	6.1 to 7.3
BCg -- 55 to 80 in	silty clay loam	slow	3.97 to 4.71 in	6.6 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J57A--Balaton loam, 1 to 3 percent slopes

#### Balaton

*Extent:* 75 to 95 percent of the unit

*Landform(s):* knolls on till plains

*Slope gradient:* 1 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 13 in	loam	moderate	2.60 to 2.86 in	7.4 to 8.4
ABk,Bk -- 13 to 31 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C -- 31 to 80 in	loam	moderate	7.32 to 9.28 in	7.4 to 8.4

### J75A--Fordville loam, 0 to 2 percent slopes

#### Fordville

*Extent:* 80 to 90 percent of the unit

*Landform(s):* flats on outwash plains

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 6 in	loam	moderate	1.18 to 1.30 in	6.1 to 7.3
Bw -- 6 to 24 in	loam	moderate	3.08 to 3.44 in	6.1 to 7.3
2C -- 24 to 80 in	gravelly loamy sand	very rapid	2.24 to 3.35 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J75B--Fordville loam, 2 to 6 percent slopes

#### Fordville

*Extent:* 80 to 90 percent of the unit

*Landform(s):* hills on outwash plains

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 6 in	loam		moderate	1.18 to 1.30 in	6.1 to 7.3
Bw --	6 to 24 in	loam		moderate	3.08 to 3.44 in	6.1 to 7.3
2C --	24 to 80 in	gravelly loamy sand		very rapid	2.24 to 3.35 in	7.4 to 8.4

### J77A--Lamoure silty clay loam, 0 to 2 percent slopes, frequently flooded

#### Lamoure, frequently flooded

*Extent:* 75 to 95 percent of the unit

*Landform(s):* flats on flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* frequent

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 5w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 --	0 to 27 in	silty clay loam		moderate	4.89 to 5.98 in	7.4 to 8.4
Cg1 --	27 to 34 in	silty clay loam		moderate	1.07 to 1.27 in	7.4 to 8.4
Cg2 --	34 to 60 in	silt loam		moderate	5.20 to 5.72 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J80A--Lamoure-La Prairie complex, channeled, 0 to 2 percent slopes, frequently flooded

#### Lamoure, channeled, frequently flooded

*Extent:* 40 to 60 percent of the unit

*Landform(s):* flats on flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* frequent

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 5w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 --	0 to 27 in		silty clay loam	moderate	4.89 to 5.98 in	7.4 to 8.4
Cg1 --	27 to 34 in		silty clay loam	moderate	1.07 to 1.27 in	7.4 to 8.4
Cg2 --	34 to 60 in		silt loam	moderate	5.20 to 5.72 in	7.4 to 8.4

#### La Prairie, channeled, frequently flooded

*Extent:* 30 to 50 percent of the unit

*Landform(s):* flats on flood plains

*Slope gradient:* 0 to 2 percent

*Parent material:* alluvium

*Restrictive feature(s):* greater than 60 inches

*Flooding:* frequent

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 5w

*Hydric soil:* yes

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		loam	moderate	1.81 to 1.99 in	6.6 to 8.4
A --	9 to 38 in		loam	moderate	5.83 to 6.41 in	6.6 to 8.4
Bw --	38 to 50 in		loam	moderate	2.01 to 2.24 in	6.6 to 8.4
C --	50 to 60 in		loam	moderate	1.67 to 1.87 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J95E--Buse, stony-Wilno complex, 18 to 25 percent slopes

#### Buse, stony

*Extent:* 65 to 85 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 18 to 25 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 6e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk -- 8 to 37 in	loam	moderate	4.37 to 5.54 in	7.4 to 8.4
C -- 37 to 80 in	loam	moderately slow	6.44 to 8.15 in	7.4 to 8.4

#### Wilno

*Extent:* 10 to 20 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 18 to 25 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 6e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB -- 42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 -- 52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3



## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J95F--Buse, stony-Wilno complex, 25 to 40 percent slopes

#### Buse, stony

*Extent:* 65 to 85 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 25 to 40 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk -- 8 to 37 in	loam	moderate	4.37 to 5.54 in	7.4 to 8.4
C -- 37 to 80 in	loam	moderately slow	6.44 to 8.15 in	7.4 to 8.4

#### Wilno

*Extent:* 10 to 20 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 25 to 40 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB -- 42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 -- 52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J96C2--Barnes-Buse complex, 6 to 12 percent slopes, moderately eroded

#### Barnes, moderately eroded

*Extent:* 40 to 60 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	loam	moderate	1.42 to 1.56 in	6.1 to 7.3
Bw1,Bw2 -- 7 to 19 in	loam	moderate	2.01 to 2.24 in	6.1 to 7.3
Bk -- 19 to 37 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C -- 37 to 60 in	loam	moderately slow	3.43 to 4.34 in	7.4 to 8.4

#### Buse, moderately eroded

*Extent:* 20 to 40 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2 -- 8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C -- 40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J100D2--Buse, eroded-Wilno complex, 12 to 18 percent slopes

#### Buse, moderately eroded

*Extent:* 60 to 80 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 12 to 18 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2 -- 8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C -- 40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

#### Wilno

*Extent:* 10 to 20 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 12 to 18 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB -- 42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 -- 52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J101B--Hokans-Svea complex, 1 to 4 percent slopes

#### Hokans

*Extent:* 60 to 80 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 1 to 4 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 15 in	loam	moderate	2.99 to 3.29 in	6.1 to 7.3
Bw -- 15 to 22 in	loam	moderate	1.20 to 1.35 in	6.1 to 7.3
Bk -- 22 to 40 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C -- 40 to 80 in	loam	moderately slow	5.96 to 7.56 in	7.4 to 8.4

#### Svea

*Extent:* 15 to 25 percent of the unit

*Landform(s):* swales on moraines, flats on moraines

*Slope gradient:* 1 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 10 in	loam	moderate	1.97 to 2.17 in	6.1 to 7.3
Bw -- 10 to 21 in	loam	moderate	1.87 to 2.09 in	6.6 to 7.3
Bk -- 21 to 36 in	clay loam	moderate	2.24 to 2.84 in	7.4 to 8.4
C -- 36 to 60 in	loam	moderately slow	3.60 to 4.56 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J105A--Arvilla sandy loam, 0 to 2 percent slopes

#### Arvilla

*Extent:* 75 to 95 percent of the unit

*Landform(s):* flats on outwash plains

*Slope gradient:* 0 to 2 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 3s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw --	9 to 14 in		sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk --	14 to 48 in		gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C --	48 to 80 in		gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J106B--Barnes-Buse-Svea complex, 1 to 6 percent slopes

#### Barnes, occasional saturation

*Extent:* 50 to 70 percent of the unit

*Landform(s):* hills on moraines, hills on till plains

*Slope gradient:* 3 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 11 in	loam	moderate	2.20 to 2.43 in	6.1 to 7.3
Bw -- 11 to 26 in	loam	moderate	2.54 to 2.84 in	6.1 to 7.3
Bk -- 26 to 44 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C -- 44 to 80 in	loam	moderately slow	5.37 to 6.81 in	7.4 to 8.4

#### Buse

*Extent:* 10 to 20 percent of the unit

*Landform(s):* hills on moraines, hills on till plains

*Slope gradient:* 3 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2 -- 8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C -- 40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J106B--Barnes-Buse-Svea complex, 1 to 6 percent slopes

#### Svea

*Extent:* 10 to 20 percent of the unit

*Landform(s):* swales on moraines, flats on moraines, swales on till plains, flats on till plains

*Slope gradient:* 1 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

#### *Representative soil profile:*

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 10 in	loam		moderate	1.97 to 2.17 in	6.1 to 7.3
Bw --	10 to 21 in	loam		moderate	1.87 to 2.09 in	6.6 to 7.3
Bk --	21 to 36 in	clay loam		moderate	2.24 to 2.84 in	7.4 to 8.4
C --	36 to 60 in	loam		moderately slow	3.60 to 4.56 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J107A--Lakepark-Roliss-Parnell, depressional, complex, 0 to 3 percent slopes

#### Lakepark

*Extent:* 30 to 40 percent of the unit

*Landform(s):* drainageways on moraines

*Slope gradient:* 0 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.73 in	6.1 to 7.3
A --	8 to 27 in	loam		moderate	3.86 to 4.24 in	6.1 to 7.3
Bg --	27 to 41 in	loam		moderate	2.34 to 2.62 in	6.6 to 7.3
Cg --	41 to 80 in	loam		moderately slow	5.85 to 7.41 in	7.4 to 8.4

#### Roliss

*Extent:* 20 to 30 percent of the unit

*Landform(s):* drainageways on moraines, flats on moraines, rims on moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .32

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	loam		moderate	1.36 to 1.72 in	7.4 to 8.4
A --	9 to 14 in	clay loam		moderate	0.87 to 0.97 in	7.4 to 8.4
Bg --	14 to 20 in	clay loam		moderate	1.00 to 1.12 in	7.4 to 8.4
Cg --	20 to 80 in	loam		moderately slow	8.98 to 11.37 in	7.4 to 8.4



## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J107A--Lakepark-Roliss-Parnell, depressional, complex, 0 to 3 percent slopes

#### Parnell, depressional

*Extent:* 10 to 20 percent of the unit

*Landform(s):* depressions on moraines

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 7

*Wind erodibility index (WEI):* 38

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 --	0 to 22 in	silty clay loam		moderately slow	3.97 to 4.85 in	6.1 to 7.3
Btg --	22 to 55 in	silty clay		slow	4.30 to 5.29 in	6.1 to 7.3
BCg --	55 to 80 in	silty clay loam		slow	3.97 to 4.71 in	6.6 to 8.4

### J195B--Poinsett silty clay loam, 2 to 6 percent slopes

#### Poinsett, occasional saturation

*Extent:* 70 to 90 percent of the unit

*Landform(s):* hills on lake plains

*Slope gradient:* 2 to 6 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 7

*Wind erodibility index (WEI):* 38

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silty clay loam		moderate	1.42 to 1.73 in	6.1 to 7.3
Bw --	8 to 23 in	silty clay loam		moderate	2.39 to 2.84 in	6.1 to 7.3
Bk --	23 to 62 in	silty clay loam		moderate	6.24 to 7.41 in	7.4 to 8.4
2C --	62 to 80 in	clay loam		moderately slow	2.54 to 3.26 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J198C2--Rusklyn-Poinsett complex, 6 to 12 percent slopes, moderately eroded

#### Rusklyn, moderately eroded

*Extent:* 40 to 50 percent of the unit

*Landform(s):* hills on lake plains

*Slope gradient:* 6 to 12 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silty clay loam		moderate	1.63 to 1.99 in	7.4 to 8.4
Bk --	9 to 28 in	silty clay loam		moderate	3.02 to 3.59 in	7.4 to 8.4
C1 --	28 to 53 in	silty clay loam		moderate	4.03 to 4.79 in	7.4 to 8.4
2C2 --	53 to 80 in	clay loam		moderately slow	3.75 to 4.82 in	7.4 to 8.4

#### Poinsett, moderately eroded

*Extent:* 35 to 45 percent of the unit

*Landform(s):* hills on lake plains

*Slope gradient:* 6 to 12 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 7

*Wind erodibility index (WEI):* 38

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silty clay loam		moderate	1.42 to 1.73 in	6.1 to 7.3
Bw --	8 to 23 in	silty clay loam		moderate	2.39 to 2.84 in	6.1 to 7.3
Bk --	23 to 62 in	silty clay loam		moderate	6.24 to 7.41 in	7.4 to 8.4
2C --	62 to 80 in	clay loam		moderately slow	2.54 to 3.26 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J199A--Fulda silty clay, 0 to 2 percent slopes

#### Fulda

*Extent:* 75 to 95 percent of the unit

*Landform(s):* flats on moraines, drainageways on moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 7

*Wind erodibility index (WEI):* 38

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in		silty clay	slow	1.69 to 2.21 in	6.1 to 7.3
Bg --	13 to 33 in		silty clay	slow	2.01 to 3.81 in	6.6 to 7.3
Bkg --	33 to 40 in		silty clay	slow	0.71 to 1.35 in	7.4 to 8.4
Cg --	40 to 60 in		silty clay	slow	1.97 to 3.74 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J227D2--Buse, moderately eroded-Sandberg complex, 12 to 18 percent slopes

#### Buse, moderately eroded

*Extent:* 40 to 60 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 12 to 18 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2 -- 8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C -- 40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

#### Sandberg

*Extent:* 20 to 40 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 12 to 18 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .15

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 -- 0 to 12 in	sandy loam	very rapid	1.54 to 1.77 in	6.1 to 7.8
Bk -- 12 to 28 in	gravelly sand	very rapid	0.32 to 0.97 in	7.4 to 8.4
C -- 28 to 80 in	gravelly sand	very rapid	1.04 to 3.12 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J227F--Buse-Sandberg complex, 18 to 40 percent slopes

#### Buse

*Extent:* 40 to 60 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 18 to 40 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk -- 8 to 37 in	loam	moderate	4.37 to 5.54 in	7.4 to 8.4
C -- 37 to 80 in	loam	moderately slow	6.44 to 8.15 in	7.4 to 8.4

#### Sandberg

*Extent:* 20 to 40 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 18 to 40 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .15

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* A

*Potential for frost action:* low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 -- 0 to 12 in	sandy loam	very rapid	1.54 to 1.77 in	6.1 to 7.8
Bk -- 12 to 28 in	gravelly sand	very rapid	0.32 to 0.97 in	7.4 to 8.4
C -- 28 to 80 in	gravelly sand	very rapid	1.04 to 3.12 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J232B--Barnes-Buse-Arvilla complex, 2 to 6 percent slopes

#### Barnes, occasional saturation

*Extent:* 30 to 40 percent of the unit

*Landform(s):* hills on moraines, hills on till plains

*Slope gradient:* 2 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 11 in	loam	moderate	2.20 to 2.43 in	6.1 to 7.3
Bw -- 11 to 26 in	loam	moderate	2.54 to 2.84 in	6.1 to 7.3
Bk -- 26 to 44 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C -- 44 to 80 in	loam	moderately slow	5.37 to 6.81 in	7.4 to 8.4

#### Buse

*Extent:* 25 to 35 percent of the unit

*Landform(s):* hills on moraines, hills on till plains

*Slope gradient:* 3 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2 -- 8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C -- 40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J232B--Barnes-Buse-Arvilla complex, 2 to 6 percent slopes

#### Arvilla

*Extent:* 20 to 30 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 2 to 6 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

#### *Representative soil profile:*

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw --	9 to 14 in		sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk --	14 to 48 in		gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C --	48 to 80 in		gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J235C2--Buse-Barnes-Arvilla complex, 6 to 12 percent slopes, moderately eroded

#### Buse, moderately eroded

*Extent:* 30 to 40 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2 -- 8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C -- 40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

#### Barnes, moderately eroded

*Extent:* 25 to 35 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	loam	moderate	1.42 to 1.56 in	6.1 to 7.3
Bw1,Bw2 -- 7 to 19 in	loam	moderate	2.01 to 2.24 in	6.1 to 7.3
Bk -- 19 to 37 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C -- 37 to 60 in	loam	moderately slow	3.43 to 4.34 in	7.4 to 8.4



## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J235C2--Buse-Barnes-Arvilla complex, 6 to 12 percent slopes, moderately eroded

#### Arvilla

*Extent:* 20 to 30 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 6 to 12 percent

*Parent material:* outwash

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat excessively drained

*Soil loss tolerance (T factor):* 3

*Wind erodibility group (WEG):* 3

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .20

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* low

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw --	9 to 14 in	sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk --	14 to 48 in	gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C --	48 to 80 in	gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J236A--Highpoint lake silty clay, 0 to 2 percent slopes

#### Highpoint Lake

*Extent:* 80 to 95 percent of the unit

*Landform(s):* flats on moraines

*Slope gradient:* 0 to 2 percent

*Parent material:* lacustrine deposits

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* C

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 18 in		silty clay	slow	2.35 to 3.08 in	6.1 to 7.3
Bw --	18 to 25 in		silty clay	slow	0.71 to 1.35 in	6.6 to 7.3
Bk --	25 to 53 in		silty clay loam	slow	2.80 to 5.31 in	7.4 to 8.4
C --	53 to 80 in		silty clay loam	slow	2.68 to 5.09 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J237A--Brensall-Tress complex, 0 to 2 percent slopes

#### Brensall

*Extent:* 60 to 80 percent of the unit

*Landform(s):* flats on till plains

*Slope gradient:* 1 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	clay loam		moderately slow	1.34 to 1.50 in	6.1 to 7.3
Bt --	8 to 15 in	clay loam		moderately slow	1.06 to 1.35 in	6.6 to 7.3
Bk --	15 to 48 in	clay loam		moderately slow	4.63 to 5.29 in	7.4 to 8.4
BC --	48 to 80 in	clay loam		moderately slow	4.46 to 5.10 in	7.4 to 8.4

#### Tress

*Extent:* 15 to 25 percent of the unit

*Landform(s):* swales on till plains

*Slope gradient:* 0 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 20 in	clay loam		moderately slow	3.41 to 3.81 in	6.1 to 7.3
Bt --	20 to 36 in	clay loam		moderately slow	2.36 to 2.99 in	6.6 to 7.3
Bk --	36 to 48 in	clay loam		moderately slow	1.71 to 1.95 in	7.4 to 8.4
BC --	48 to 80 in	clay loam		moderately slow	4.46 to 5.10 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J237B--Brensall-Tress complex, 1 to 4 percent slopes

#### Brensall

*Extent:* 50 to 70 percent of the unit

*Landform(s):* flats on till plains

*Slope gradient:* 1 to 4 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	clay loam		moderately slow	1.34 to 1.50 in	6.1 to 7.3
Bt --	8 to 15 in	clay loam		moderately slow	1.06 to 1.35 in	6.6 to 7.3
Bk --	15 to 48 in	clay loam		moderately slow	4.63 to 5.29 in	7.4 to 8.4
BC --	48 to 80 in	clay loam		moderately slow	4.46 to 5.10 in	7.4 to 8.4

#### Tress

*Extent:* 20 to 30 percent of the unit

*Landform(s):* swales on till plains

*Slope gradient:* 1 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 20 in	clay loam		moderately slow	3.41 to 3.81 in	6.1 to 7.3
Bt --	20 to 36 in	clay loam		moderately slow	2.36 to 2.99 in	6.6 to 7.3
Bk --	36 to 48 in	clay loam		moderately slow	1.71 to 1.95 in	7.4 to 8.4
BC --	48 to 80 in	clay loam		moderately slow	4.46 to 5.10 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J238D2--Buse, firm till-Wilno complex, 12 to 18 percent slopes

#### Buse, firm till, moderately eroded

*Extent:* 50 to 70 percent of the unit

*Landform(s):* hills on till plains

*Slope gradient:* 12 to 18 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk -- 9 to 34 in	clay loam	moderately slow	3.47 to 3.97 in	7.4 to 8.4
BC -- 34 to 80 in	clay loam	moderately slow	6.45 to 7.37 in	7.4 to 8.4

#### Wilno

*Extent:* 15 to 25 percent of the unit

*Landform(s):* hills on till plains

*Slope gradient:* 12 to 18 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 4e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB -- 42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 -- 52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J238E--Buse, firm till-Wilno complex, 18 to 25 percent slopes

#### Buse, firm till

*Extent:* 65 to 85 percent of the unit

*Landform(s):* hills on till plains

*Slope gradient:* 18 to 25 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 6e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk -- 9 to 34 in	clay loam	moderately slow	3.47 to 3.97 in	7.4 to 8.4
BC -- 34 to 80 in	clay loam	moderately slow	6.45 to 7.37 in	7.4 to 8.4

#### Wilno

*Extent:* 10 to 20 percent of the unit

*Landform(s):* hills on till plains

*Slope gradient:* 18 to 25 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 6e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB -- 42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 -- 52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J238F--Buse, firm till-Wilno complex, 25 to 40 percent slopes

#### Buse, firm till

*Extent:* 65 to 85 percent of the unit

*Landform(s):* hills on till plains

*Slope gradient:* 25 to 40 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk -- 9 to 34 in	clay loam	moderately slow	3.47 to 3.97 in	7.4 to 8.4
BC -- 34 to 80 in	clay loam	moderately slow	6.45 to 7.37 in	7.4 to 8.4

#### Wilno

*Extent:* 10 to 20 percent of the unit

*Landform(s):* hills on moraines

*Slope gradient:* 25 to 40 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 7e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB -- 42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 -- 52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J240B--Forman-Aastad complex, 3 to 6 percent slopes

#### Forman, occasional saturation

*Extent:* 40 to 60 percent of the unit

*Landform(s):* hills on till plains

*Slope gradient:* 3 to 6 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	clay loam	moderately slow	1.34 to 1.50 in	6.6 to 7.3
Bt1 -- 8 to 14 in	clay loam	moderately slow	0.94 to 1.20 in	6.6 to 7.3
Bt2 -- 14 to 17 in	clay loam	moderately slow	0.41 to 0.52 in	6.6 to 7.3
Bk -- 17 to 44 in	clay loam	moderately slow	3.80 to 4.35 in	7.4 to 8.4
Bky -- 44 to 60 in	clay loam	moderately slow	2.20 to 2.52 in	7.4 to 8.4

#### Aastad

*Extent:* 15 to 25 percent of the unit

*Landform(s):* swales on till plains

*Slope gradient:* 1 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1,A2 -- 0 to 19 in	clay loam	moderately slow	3.21 to 3.59 in	6.1 to 7.3
Bw -- 19 to 32 in	clay loam	moderately slow	1.95 to 2.47 in	6.6 to 7.3
Bk -- 32 to 46 in	clay loam	moderately slow	1.98 to 2.27 in	7.4 to 8.4
BC -- 46 to 60 in	clay loam	moderately slow	1.93 to 2.20 in	7.4 to 8.4



## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J243A--Balaton clay loam, 1 to 3 percent slopes

#### Balaton

*Extent:* 85 to 95 percent of the unit

*Landform(s):* knolls on till plains

*Slope gradient:* 1 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* moderately well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 2s

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in	clay loam		moderately slow	1.67 to 1.87 in	7.4 to 8.4
Bk --	10 to 28 in	clay loam		moderately slow	2.54 to 2.90 in	7.4 to 8.4
BC --	28 to 60 in	clay loam		moderately slow	4.46 to 5.10 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J250C2--Forman-Buse complex, 6 to 12 percent slopes, moderately eroded

#### Forman, moderately eroded

*Extent:* 40 to 50 percent of the unit

*Landform(s):* hills on till plains

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	clay loam	moderately slow	1.34 to 1.50 in	6.6 to 7.3
Bt1 -- 8 to 14 in	clay loam	moderately slow	0.94 to 1.20 in	6.6 to 7.3
Bt2 -- 14 to 17 in	clay loam	moderately slow	0.41 to 0.52 in	6.6 to 7.3
Bk -- 17 to 44 in	clay loam	moderately slow	3.80 to 4.35 in	7.4 to 8.4
Bky -- 44 to 60 in	clay loam	moderately slow	2.20 to 2.52 in	7.4 to 8.4

#### Buse, moderately eroded, firm till

*Extent:* 35 to 45 percent of the unit

*Landform(s):* hills on till plains

*Slope gradient:* 6 to 12 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* well drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 4L

*Wind erodibility index (WEI):* 86

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 3e

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk -- 9 to 34 in	clay loam	moderately slow	3.47 to 3.97 in	7.4 to 8.4
BC -- 34 to 80 in	clay loam	moderately slow	6.45 to 7.37 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### J251A--Parnell silty clay loam, firm till, 0 to 2 percent slopes

#### Parnell, firm till

*Extent:* 70 to 80 percent of the unit

*Landform(s):* drainageways on till plains

*Slope gradient:* 0 to 2 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 7

*Wind erodibility index (WEI):* 38

*Kw factor (surface layer)* .37

*Land capability, nonirrigated* 2w

*Hydric soil:* yes

*Hydrologic group:* C/D

*Potential for frost action:* high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 25 in	silty clay loam	moderately slow	4.54 to 5.54 in	6.1 to 7.3
Btg --	25 to 44 in	silty clay	slow	2.46 to 3.02 in	6.1 to 7.3
Bkg --	44 to 62 in	clay loam	moderately slow	2.48 to 2.83 in	7.4 to 8.4
BCg --	62 to 80 in	clay loam	moderately slow	2.54 to 2.90 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### L84A--Glencoe clay loam, depressional, 0 to 1 percent slopes

#### Glencoe, depressional

*Extent:* 75 to 100 percent of the unit

*Landform(s):* depressions on moraines

*Slope gradient:* 0 to 1 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* frequent

*Drainage class:* very poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .28

*Land capability, nonirrigated* 3w

*Hydric soil:* yes

*Hydrologic group:* B/D

*Potential for frost action:* high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 24 in	clay loam		moderate	4.32 to 5.28 in	6.1 to 7.8
ABg --	24 to 35 in	clay loam		moderate	1.98 to 2.43 in	6.1 to 7.8
Bg --	35 to 48 in	loam		moderate	1.95 to 2.47 in	6.6 to 7.8
Cg --	48 to 60 in	loam		moderate	1.77 to 2.24 in	7.4 to 8.4

## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### L201A--Normania loam, 0 to 3 percent slopes

#### Normania

*Extent:* 75 to 90 percent of the unit

*Landform(s):* flats on moraines, rises on moraines

*Slope gradient:* 0 to 3 percent

*Parent material:* till

*Restrictive feature(s):* greater than 60 inches

*Flooding:* none

*Ponding:* none

*Drainage class:* somewhat poorly drained

*Soil loss tolerance (T factor):* 5

*Wind erodibility group (WEG):* 6

*Wind erodibility index (WEI):* 48

*Kw factor (surface layer)* .24

*Land capability, nonirrigated* 1

*Hydric soil:* no

*Hydrologic group:* B

*Potential for frost action:* high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB -- 0 to 17 in	loam	moderate	3.39 to 3.72 in	6.1 to 7.3
Bw -- 17 to 26 in	loam	moderate	1.36 to 1.72 in	6.6 to 7.3
Bk -- 26 to 50 in	loam	moderate	3.60 to 4.56 in	7.4 to 8.4
Cg -- 50 to 60 in	loam	moderate	1.48 to 1.87 in	7.4 to 8.4

### M-W--Water, miscellaneous

#### Water, miscellaneous

*Extent:* 100 percent of the unit

*Landform(s):*

*Slope gradient:*

*Parent material:*

*Restrictive feature(s):* greater than 60 inches

*Flooding:*

*Ponding:*

*Drainage class:*

*Soil loss tolerance (T factor):*

*Wind erodibility group (WEG):*

*Wind erodibility index (WEI):*

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:*

*Hydrologic group:*

*Potential for frost action:*

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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## Map Unit Description (MN)

Yellow Medicine County, Minnesota

### W--Water

#### Water

*Extent:* 100 percent of the unit

*Landform(s):*

*Slope gradient:*

*Parent material:*

*Restrictive feature(s):* greater than 60 inches

*Flooding:*

*Ponding:*

*Drainage class:*

*Soil loss tolerance (T factor):*

*Wind erodibility group (WEG):*

*Wind erodibility index (WEI):*

*Kw factor (surface layer)*

*Land capability, nonirrigated*

*Hydric soil:*

*Hydrologic group:*

*Potential for frost action:*

*Representative soil profile:*

*Texture*

*Permeability*

*Available water  
capacity*

*pH*

This report provides a semitabular listing of some soil and site properties and interpretations that are valuable in communicating the concept of a map unit. The report also provides easy access to the commonly used conservation planning information in one place. The major soil components in each map unit are displayed. Minor components may be displayed if they are included in the database and are selected at the time the report is generated.